

SOFTWARE TOOL FOR SYNTHESIZING A REAL-TIME OPERATING SYSTEM

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515 ABSTRACT OF THE DISCLOSURE

520 A tool for developing software source code for embedded systems that
allows the user to automatically generate a real-time operating system for
scheduling of multi-tasking operations while preventing deadlocks between the
real-time tasks. The tool takes parameters that let the user assign priorities
and timing characteristics to different tasks and to experiment with different
scheduling algorithms.